



Fax **Urgent** **Return reply requested** **Original will be sent as confirmation**

To: United States Patent & Trademark Office **Date:** June 23, 2004

Attention: Examiner My-Trang Ton

From: Theodore A. Wood, Esq. 

Re: U.S. Utility Patent Application
Appl. No.: 10/658,837; Filed: September 10, 2003
For: Method and System for Implementing
Autonomous Automatic Gain Control in a Low
Noise Broadband Distribution Amplifier
Inventors: Adel FANOUS *et al.*

Pages (including cover sheet): 6

Our Reference: 1875.1680008

Fax No: (571) 273-1754

Telephone No.: (571) 272-1754

Message

Per your request, attached is a copy of the International Search Report filed with the above-captioned case on September 10, 2003. If you require additional information, please do not hesitate to contact me directly at (202) 772-8520.

CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that this paper is being facsimile transmitted
to the Patent and Trademark Office on the date shown below.

Delain Desirée Crooks
Delain Desirée Crooks

Date: 6/23/04

279834_1.DOC

If any portion of this transmission is not received clearly or in full,
contact us at 202.371.2600 or f 202.371.2540

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Sterne, Kessler, Goldstein & Fox P.L.L.C. : 1100 New York Avenue, NW : Washington, DC 20005 : 202.371.2600 f 202.371.2540 : www.skgf.com

PAGE 1/6 * RCVD AT 6/23/2004 2:53:32 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-3/24 * DNIS:2731754 * CSD:202 371 2540 * DURATION (mm:ss):02:12

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:
 ROBERT SOKOHL
 STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
 1100 NEW YORK AVENUE, N.W. SUITE 600
 WASHINGTON, DC 20005-3934

RECEIVED

JAN - 6 2003

STERNE, KESSLER,
GOLDSTEIN & FOX P.L.L.C.PCT 1/1/03
JanNOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT
OR THE DECLARATION

(PCT Rule 44.1)

Date of Mailing
(day/month/year)

02 JAN 2003

Applicant's or agent's file reference
1875.168PC03

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.
PCT/US02/25799International filing date
(day/month/year)

15 August 2002 (15.08.2002)

Applicant
BROADBAND CORPORATION

DOCKETED

Commenced as Admitted (2/2/03)

Lumisearch (3/2/03) 2-2-03

1. The applicant is hereby notified that the international search report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19: *July 15, 2003 (4/2/03) 3-2-03*
 The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46).

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. *Australia, 6/25 (7/2/03) 4-2-03, 6-2-03*

Where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes
 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35 *Published 1/2/03 (1/15/03) 1-15-03*

For more detailed instructions, see the notes on the accompanying sheet.

2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith. *Chpt II Demand (3/15/03) 2-15-03*

3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

- the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Chpt II M.P. (4/15/03) 4-15-03, 3-15-03

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/US
 Commissioner for Patents
 Box PCT
 Washington, D.C. 20231
 Facsimile No. (703)305-3230
 Form PCT/ISA/220 (April 2002)

Authorized officer *Shawn S. Hopper*
 Michael B. Shingleton
 Telephone No. 703-308-0956

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:
ROBERT SOKOHL
 STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
 1100 NEW YORK AVENUE, N.W. SUITE 600
 WASHINGTON, DC 20005-3934

PCTNOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT
OR THE DECLARATION

(PCT Rule 44.1)

		Date of Mailing (day/month/year) 02 JAN 2003
Applicant's or agent's file reference 1875.168PC03		FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US02/25799		International filing date (day/month/year) 15 August 2002 (15.08.2002)
Applicant BROADBAND CORPORATION		

1. The applicant is hereby notified that the international search report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

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See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/US Commissioner for Patents Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230	Authorized officer <i>Shawn S. Happle</i> Michael B. Shingleton Telephone No. 703-308-0956
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(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 1875.168PC03	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US02/25799	International filing date (day/month/year) 15 August 2002 (15.08.2002)	(Earliest) Priority Date (day/month/year) 15 August 2001 (15.08.2001)
Applicant BROADBAND CORPORATION		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the Report
 - a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
 - b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:
 - contained in the international application in written form.
 - filed together with the international application in computer readable form.
 - furnished subsequently to this Authority in written form.
 - furnished subsequently to this Authority in computer readable form.
 - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
 - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
2. Certain claims were found unsearchable (See Box I).
3. Unity of invention is lacking (See Box II).
4. With regard to the title,
 - the text is approved as submitted by the applicant.
 - the text has been established by this Authority to read as follows:
5. With regard to the abstract,
 - the text is approved as submitted by the applicant.
 - the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is Figure No. 3
 - as suggested by the applicant.
 - because the applicant failed to suggest a figure.
 - because this figure better characterizes the invention.

None of the figures

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/25799

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The abstract is too long (PCT Rule 8.1(b)). The abstract must be less than 150 words, or 200 words when no figure is to be published.

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

An active splitter circuit arrangement (300) includes a first amplification module (302) having a number of first input ports and first output ports. The first amplification module is configured to provide a first stage amplification to a received input signal (RF input) and produce from the amplified input signal a number of output signals, each substantially matching the input signal (RF input). Also included is a first gain control device (304) having a number of gain input ports respectively coupled to the first output ports and a gain output port coupled to at least one of the first input ports. The first gain control device is configured to control a gain of the first amplification module. Next, a number of second amplification modules (308, 310, 312) corresponding to the number of output signals has a number of second input ports respectively coupled to the first output ports. Each second amplification module (308, 310, 312) is configured to receive a control signal from the second gain control device.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/25799

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H03F 3/68
 US CL : 375/297, 455/132, 140, 188.1, 330/124R, 295, 278,

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 375/297, 455/132, 140, 188.1, 330/124R, 295, 278,

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,266,013 B1 (STILP et al.) 24 July 2001 (24.07.2001), Figure 2b, column 11, lines 49-57.	1-3
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A		4-28

Further documents are listed in the continuation of Box C.

See patent family annex.

Special categories of cited documents:	
"A"	document defining the general state of the art which is not considered to be of particular relevance
"B"	earlier application or patent published on or after the international filing date
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O"	document referring to an oral disclosure, use, exhibition or other means
"P"	document published prior to the international filing date but later than the priority date claimed
"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&"	document member of the same patent family

Date of the actual completion of the international search

30 September 2002 (30.09.2002)

Date of mailing of the international search report

02 JAN 2003

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks
 Box PCT
 Washington, D.C. 20231
 Facsimile No. (703)305-3230

Authorized officer

Michael B. Shingleton

Telephone No. 703-308-0956